

AMENDMENT UNDER 37 C.F.R. § 1.116
U.S. APPLN. NO. 09/699,553
ATTORNEY DOCKET NO. Q61563

AMENDMENTS TO THE DRAWINGS

Applicants herein amend Figures 8A and 8B of the Drawings to correct a misspelling.

No new matter has been added. Entry of the Replacement Drawings is requested.

Attachment: One (1) Annotated Marked-Up Drawing

Twelve (12) Replacement Sheets

FIG . 1

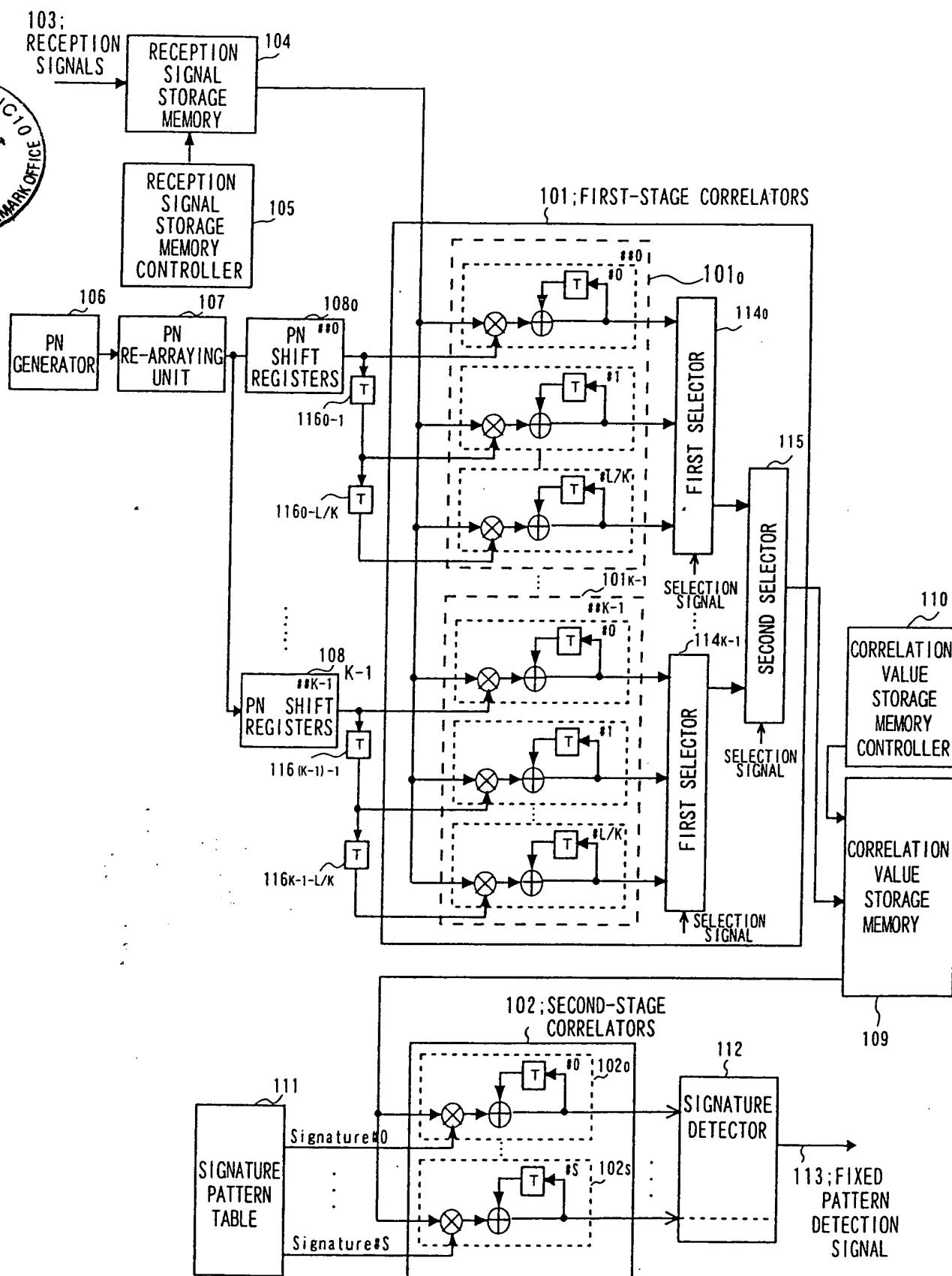


FIG . 2

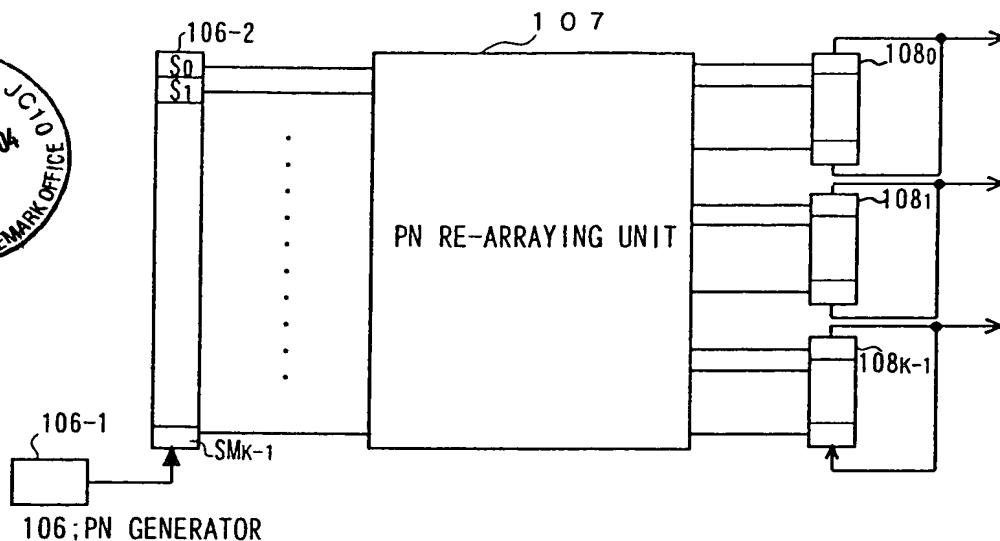
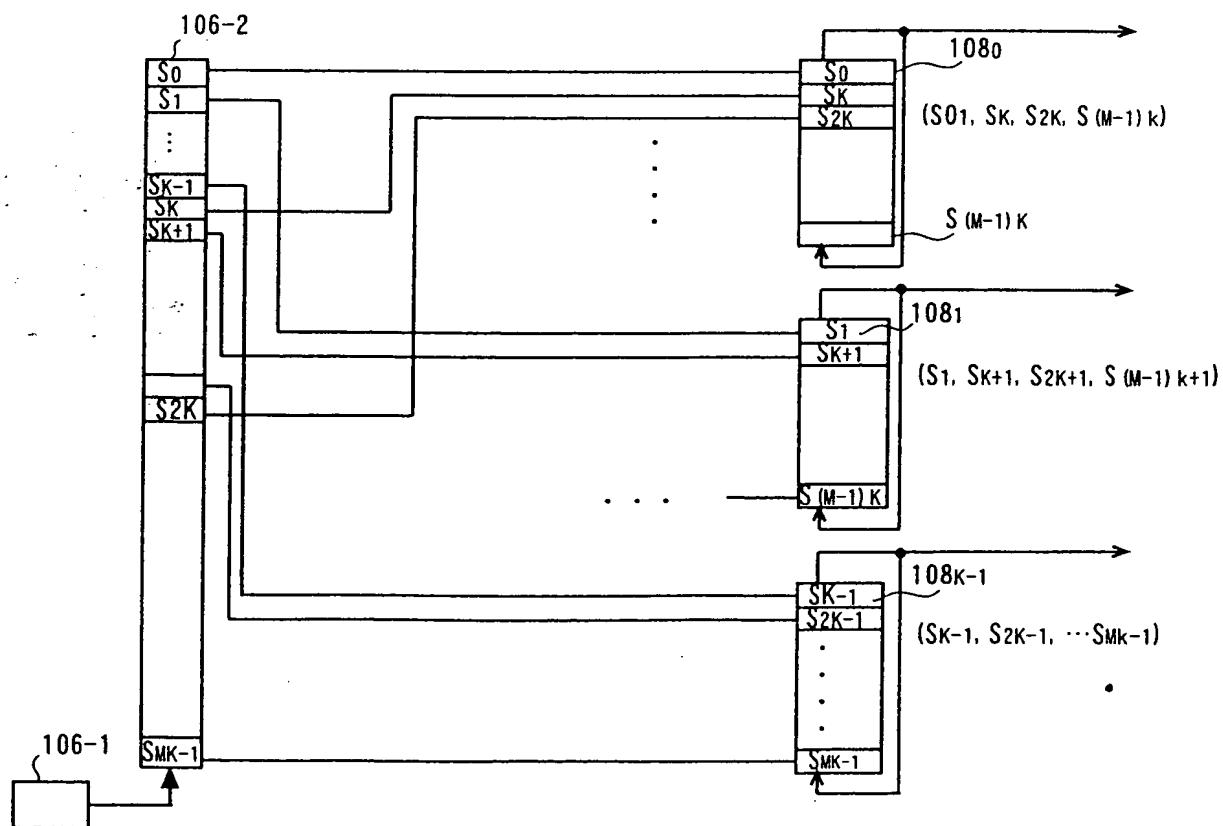
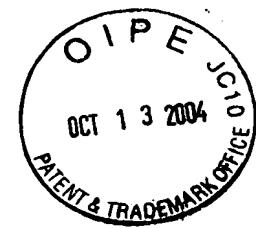


FIG . 3





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FIG . 4

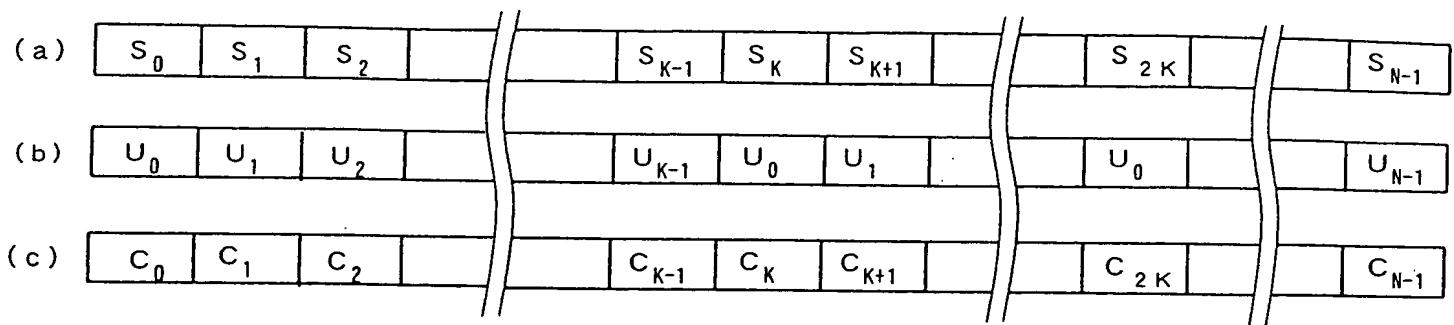




FIG . 5

CORRELATOR BLOCK		CORRELATOR BLOCK		CORRELATOR BLOCK		# $K-1$		# L/K	
#0	C_0S_0	C_1S_K	$C_{2K}S_{2K}$	\dots	\dots	$C_{(M-1)K}S_{(M-1)K}$	\dots	$C_{(M-1)K}S_{(M-1)K}$	\dots
#1	C_1S_0	C_2S_K	\dots	\dots	\dots	$C_{(M-1)K}S_{(M-2)K}$	\dots	$C_{(M-1)K}S_{(M-1)K}$	\dots
#2	C_2S_0	\dots	\dots	\dots	\dots	$C_{(M-1)K}S_{(M-3)K}$	\dots	$C_{(M+1)K}S_{(M-1)K}$	\dots
# L/K		$C_L S_0$		\dots		\dots		$C_{L+(M-1)K}S_{(M-1)K}$	
#0	C_0S_1	C_1S_{K+1}	$C_{2K}S_{2K+1}$	\dots	\dots	$C_{(M-1)K}S_{(M-1)K+1}$	\dots	$C_{(M-1)K}S_{(M-1)K+1}$	\dots
#1	C_1S_1	C_2S_{K+1}	\dots	\dots	\dots	$C_{(M-1)K}S_{(M-1)K+1}$	\dots	$C_{(M+1)K}S_{(M-1)K+1}$	\dots
# L/K		$C_L S_1$		\dots		\dots		$C_{L+(M-1)K}S_{(M-1)K+1}$	
#0	C_0S_2	C_1S_{K+2}	$C_{2K}S_{2K+2}$	\dots	\dots	$C_{(M-1)K}S_{(M-1)K+2}$	\dots	$C_{(M-1)K}S_{(M-1)K+2}$	\dots
#1	C_1S_2	C_2S_{K+2}	\dots	\dots	\dots	$C_{(M-1)K}S_{(M-1)K+2}$	\dots	$C_{(M+1)K}S_{(M-1)K+2}$	\dots
# L/K		$C_L S_2$		\dots		\dots		$C_{L+(M-1)K}S_{(M-1)K+2}$	
#0	C_0S_{K-1}	C_1S_{K-1}	$C_{2K}S_{3K-1}$	\dots	\dots	$C_{(M-1)K}S_{M K-1}$	\dots	$C_{(M-1)K}S_{M K-1}$	\dots
#1	C_1S_{K-1}	C_2S_{K-1}	\dots	\dots	\dots	$C_{(M-1)K}S_{M K-1}$	\dots	$C_{(M+1)K}S_{M K-1}$	\dots
# L/K		$C_L S_{K-1}$		\dots		\dots		$C_{L+(M-1)K}S_{M K-1}$	



FIG. 6



FIG . 7

		1	2		K
CORRELATOR BLOCK #0	CORRELATOR #0	$D_0 U_0$	$D_1 U_0$	....	$D_{K-1} U_0$
	CORRELATOR #1	$D_K U_0$	$D_{K+1} U_0$	....	$D_{2K-1} U_0$
	CORRELATOR #2	$D_{2K} U_0$	$D_{2K+1} U_0$	....	$D_{3K-1} U_0$
	:	:	:	:
	CORRELATOR #L/K	$D_L U_0$	$D_{L+1} U_0$	....	$D_{L+K-1} U_1$
CORRELATOR BLOCK #1	CORRELATOR #0	$D_{-1} U_1$	$D_0 U_1$	....	$D_{K-2} U_1$
	CORRELATOR #1	$D_{K-1} U_1$	$D_K U_1$	....	$D_{2K-2} U_1$
	CORRELATOR #2	$D_{2K-1} U_1$	$D_{2K} U_1$	....	$D_{3K-2} U_1$
	:	:	:	:
	CORRELATOR #L/K	$D_{L-1} U_1$	$D_L U_1$	....	$D_{L+K-2} U_0$
CORRELATOR BLOCK #K-1	CORRELATOR #0	$D_{-(K-1)} U_{K-1}$	$D_{-K+2} U_{K-1}$	....	$D_0 U_{K-1}$
	CORRELATOR #1	$D_1 U_{K-1}$	$D_2 U_{K-1}$	....	$D_K U_{K-1}$
	CORRELATOR #2	$D_{K+1} U_{K-1}$	$D_{K+2} U_{K-1}$	$D_{2K} U_{K-1}$
	CORRELATOR #L/K	$D_{L-(K-1)} U_{K-1}$	$D_{L-K+2} U_{K-1}$	$D_L U_{K-1}$



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FIG . 8(a)

$\# \# 0 \# 0 C_0 S_0 + C_1 S_1 + \dots + C_{(M-1)} S_{(M-1)}$

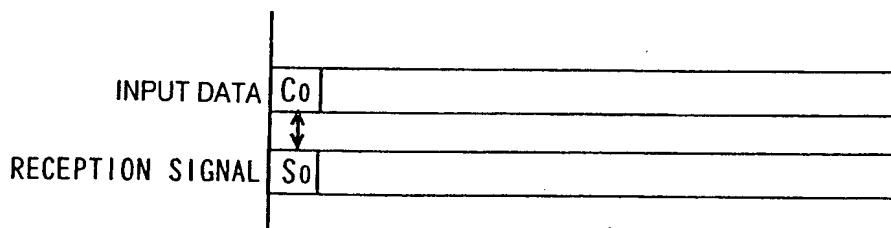


FIG . 8(b)

$\# \# 1 \# 0 C_1 S_1 + C_{k+1} S_{k+1} + \dots + C_{(M-1)} S_{(M-1)}$

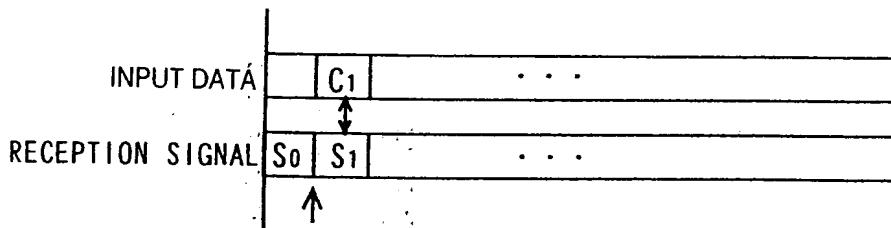


FIG . 9

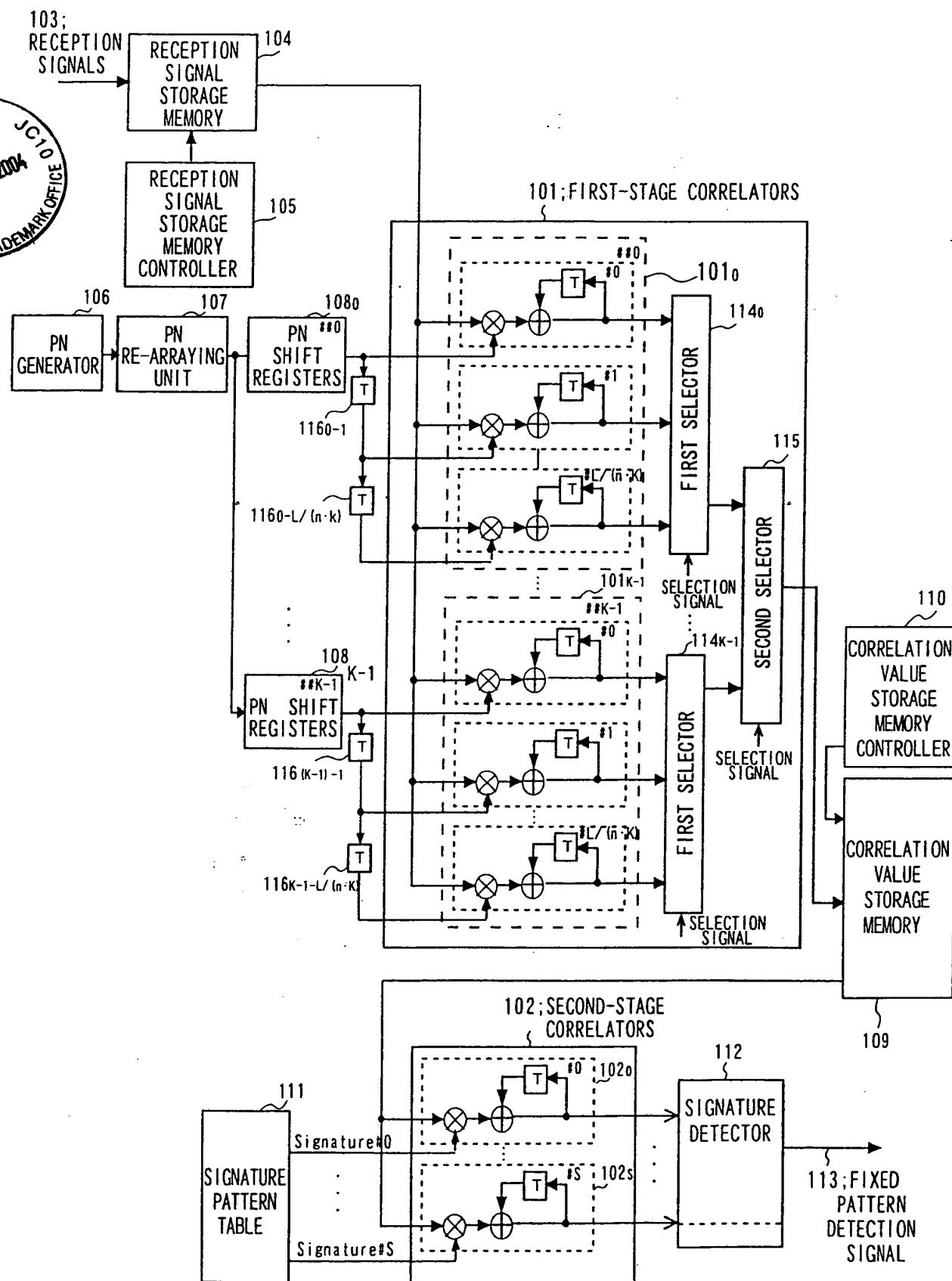




FIG. 10.

	0	1	2	$L/(n \cdot K)$	$M-1$	M	$M+1$	\dots	$M+L/(n \cdot K)-1$
#0	C_0S_0	C_KS_K	$C_{2K}S_{2K}$	\dots	$C_{(M-1)K}S_{(M-1)K}$	$C_{MK}(M-1)K$	$C_{(M+1)K}S_{(M+1)K}$	\dots	$C_{(M+L/(n \cdot K)-1)K}S_{(M+L/(n \cdot K)-1)K}$
#1	C_0S_0	C_KS_K	$C_{2K}S_K$	\dots	$C_{(M-1)K}S_{(M-2)K}$	$C_{MK}(M-1)K$	$C_{(M+1)K}S_{(M-2)K}$	\dots	$C_{(M+L/(n \cdot K)-1)K}S_{(M-2)K}$
#2		C_KS_0	\dots	$C_{(M-1)K}S_{(M-3)K}$	$C_{MK}(M-1)K$	$C_{(M+1)K}S_{(M-3)K}$	\dots	$C_{(M+L/(n \cdot K)-1)K}S_{(M-3)K}$	
$\#L/(n \cdot K)$			$C_{L,n}S_0$	\dots	$C_{L,n}S_{(M-1)K}$	$C_{L,n}S_{(M-1)K}$	$C_{L,n}S_{(M+1)K}$	\dots	$C_{L,n}S_{(M+L/(n \cdot K)-1)K}$
#0	C_0S_1	C_KS_{K+1}	$C_{2K}S_{2K+1}$	\dots	$C_{(M-1)K}S_{(M-1)K+1}$	$C_{MK}(M-1)K$	$C_{(M+1)K}S_{(M-1)K+1}$	\dots	$C_{(M+L/(n \cdot K)-1)K}S_{(M-1)K+1}$
#1	C_0S_1	C_KS_1	$C_{2K}S_{K+1}$	\dots	$C_{MK}(M-1)K$	$C_{(M+1)K}S_{(M-1)K+1}$	\dots	$C_{(M+L/(n \cdot K)-1)K}S_{(M-1)K+1}$	
$\#L/(n \cdot K)$			$C_{L,n}S_1$	\dots	$C_{L,n}S_{(M-1)K+1}$	$C_{L,n}S_{(M-1)K+1}$	$C_{L,n}S_{(M+1)K+1}$	\dots	$C_{L,n}S_{(M+L/(n \cdot K)-1)K+1}$
#0	C_0S_2	C_KS_{K+2}	$C_{2K}S_{2K+2}$	\dots	$C_{(M-1)K}S_{(M-1)K+2}$	$C_{MK}(M-1)K$	$C_{(M+1)K}S_{(M-1)K+2}$	\dots	$C_{(M+L/(n \cdot K)-1)K}S_{(M-1)K+2}$
#1	C_0S_2	C_KS_2	$C_{2K}S_{K+2}$	\dots	$C_{MK}(M-1)K$	$C_{(M+1)K}S_{(M-1)K+2}$	\dots	$C_{(M+L/(n \cdot K)-1)K}S_{(M-1)K+2}$	
$\#L/(n \cdot K)$			$C_{L,n}S_2$	\dots	$C_{L,n}S_{(M-1)K+2}$	$C_{L,n}S_{(M-1)K+2}$	$C_{L,n}S_{(M+1)K+2}$	\dots	$C_{L,n}S_{(M+L/(n \cdot K)-1)K+2}$
#0	C_0S_{K-1}	$C_{2K}S_{2K-1}$	$C_{2K}S_{3K-1}$	\dots	$C_{(M-1)K}S_{MK-1}$	$C_{MK}(M-1)K$	$C_{(M+1)K}S_{MK-1}$	\dots	$C_{(M+L/(n \cdot K)-1)K}S_{MK-1}$
#1	C_0S_{K-1}	$C_{2K}S_{K-1}$	$C_{2K}S_{2K-1}$	\dots	$C_{MK}(M-1)K$	$C_{(M+1)K}S_{MK-1}$	\dots	$C_{(M+L/(n \cdot K)-1)K}S_{MK-1}$	
$\#L/(n \cdot K)$			$C_{L,n}S_{K-1}$	\dots	$C_{L,n}S_{(M-1)K+1}$	$C_{L,n}S_{(M-1)K+1}$	$C_{L,n}S_{(M+1)K+1}$	\dots	$C_{L,n}S_{(M+L/(n \cdot K)-1)K+1}$



FIG. 11

		1	2		K
CORRELATOR BLOCK #0	CORRELATOR #0	$D_0 U_0$	$D_1 U_0$	....	$D_{K-1} U_0$
	CORRELATOR #1	$D_K U_0$	$D_{K+1} U_0$	....	$D_{2K-1} U_0$
	CORRELATOR #2	$D_{2K} U_0$	$D_{2K+1} U_0$	....	$D_{3K-1} U_0$
	:	:	:	:
	CORRELATOR #L/(n·K)	$D_{L/n} U_0$	$D_{L/n+1} U_0$	....	$D_{L/n+k-1} U_0$
CORRELATOR BLOCK #1	CORRELATOR #0	$D_{-1} U_1$	$D_0 U_1$	....	$D_{K-2} U_1$
	CORRELATOR #1	$D_{K-1} U_1$	$D_K U_1$	....	$D_{2K-2} U_1$
	CORRELATOR #2	$D_{2K-1} U_1$	$D_{2K} U_1$	....	$D_{3K-2} U_1$
	:	:	:	:
	CORRELATOR #L/(n·K)	$D_{L/n-1} U_1$	$D_{L/n} U_1$	....	$D_{L/n+k-2} U_1$
$\approx \approx : \approx : \approx : \approx \dots \approx : \approx$					
CORRELATOR BLOCK #K-1	CORRELATOR #0	$D_{-(K-1)} U_{K-1}$	$D_{-K+2} U_{K-1}$	....	$D_0 U_{K-1}$
	CORRELATOR #1	$D_1 U_{K-1}$	$D_2 U_{K-1}$	....	$D_K U_{K-1}$
	CORRELATOR #2	$D_{K+1} U_{K-1}$	$D_{K+2} U_{K-1}$	$D_{2K} U_{K-1}$
				
	CORRELATOR #L/(n·K)	$D_{L/n-(K-1)} U_{K-1}$	$D_{L/n-K+2} U_{K-1}$	$D_{L/n} U_{K-1}$

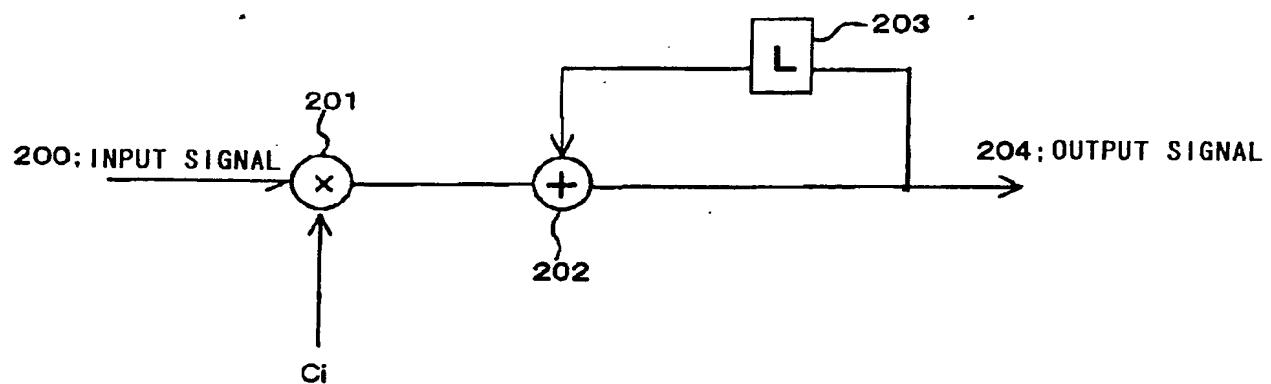


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FIG . 12

PRIOR ART





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FIG . 13

PRIOR ART

